

FRIEDMAN & RUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 30, 1996

Date Received: January 25, 1996

Project: Tank Tests, PO #M71437

Date Analyzed: January 26, 1996

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR SPECIFIC GRAVITY
@ 15.56 °C**

<u>Sample ID</u>	<u>Specific Gravity</u>
M71437 A Sm. Tank	1.11
M71437 B Lg. Tank	1.10

FRIEDMAN & RUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 30, 1996

Date Received: January 25, 1996

Project: Tank Tests, PO #M71437

QUALITY ASSURANCE RESULTS
FOR SPECIFIC GRAVITY
@ 15.56 °C

Laboratory Code: 66180DP

<u>Analyte:</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>Relative Percent Difference</u>
Specific Gravity @ 15.56 °C	1.10	1.10	0

FRIEDMAN & RUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 30, 1996
Date Received: January 25, 1996
Project: Tank Tests, PO #M71437
Date Samples Extracted: January 26, 1996
Date Extracts Analyzed: January 26, 1996

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR IRON**

USING METHOD 6010

Samples Processed Using Method 3005
Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Iron</u>
M71437 A Sm. Tank	12,000
M71437 B Lg. Tank	10,000
Method Blank	<10

FRIEDMAN & RUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 30, 1996

Date Received: January 25, 1996

Project: Tank Tests, PO #M71437

**QUALITY ASSURANCE RESULTS
FOR IRON
Samples Processed Using Method 3005**

Laboratory Code: 66180DP

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>Relative Percent Difference</u>	<u>Acceptance Criteria</u>
Iron	mg/L (ppm)	10,000	11,000	10	0-20

Laboratory Code: Spike Blank

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Spike Level</u>	<u>% Recovery</u>		<u>Acceptance Criteria</u>	<u>Relative Percent Difference</u>
			<u>MS</u>	<u>MSD</u>		
Iron	mg/L (ppm)	10	89	102	80-120	14

FRIEDMAN & RUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 30, 1996

Date Received: January 25, 1996

Project: Tank Tests, PO #M71437

Date Analyzed: January 25, 1996

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR % ACID BY VOLUME**

<u>Sample ID</u>	<u>% Acid by Volume</u>
M71437 A Sm. Tank	7.4
M71437 B Lg. Tank	6.3

FRIEDMAN & RUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 30, 1996

Date Received: January 25, 1996

Project: Tank Tests, PO #M71437

**QUALITY ASSURANCE RESULTS
FOR % ACID BY VOLUME**

Laboratory Code: 66180DP


<u>Analyte:</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>Relative Percent Difference</u>
% Acid by Volume	6.3	6.3	0

FRIEDMAN & BRUYA, INC.
3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282


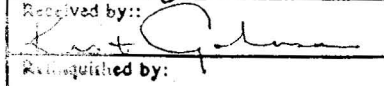
SAMPLE CHAIN OF CUSTODY

KNJ AF
1-25-96
12:01

Send Report To: Alaskan Copper Works Contact: GERALD Thompson
Company: Alaskan Copper Works
Address: 628 Hanford St
City, State, Zip: Seattle WA 98134
Phone #: (206) 282-8779 Date: _____

SITE NO.	PROJECT NAME	PURCHASE ORDER #
7238	TANK tests	M 71437
SAMPLERS (signature)		PROJECT LOCATION
		3200 6th Ave
REMARKS	SAMPLE DISPOSAL INFORMATION	
Rush!! Please.	<input type="checkbox"/> Dispose after 30 days <input checked="" type="checkbox"/> Return Samples <input type="checkbox"/> Call for Instructions	

Sample #	Date/Time Sampled	Type of Sample	# of Jars	Lab Sample #	Analyses Requested
M 71437 A	1/25 11:00	HNO3	1	66179	% of Acid
S. TANK					Spec. Gravity
					FE
M 71437 B	1/25 11:00	HNO3	1	66180	% of Acid
L. TANK					Spec. Gravity
					FE

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by: 	GERALD A. Thompson	A.C.U.	1/25/96	11:25
Received by: 	KURT JOHNSON	AKB, I	1/25/96	11:30
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3012 16th Avenue West
Seattle, WA 98119-2029
FAX: (206) 283-5044

January 30, 1996

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on January 25, 1996 from your Tank Tests, PO #M71437 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kurt Johnson
Chemist

keh
Enclosures
FAX: 382-7335
ACU0130R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3012 16th Avenue West
Seattle, WA 98119-2029
FAX: (206) 283-5044

January 30, 1996

**INVOICE # 96ACU0130-2
DUPLICATE COPY**

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Tank Tests, PO #M71437: Results of testing requested by Gerry Thompson, Project Manager for material submitted on January 25, 1996.

2 water samples analyzed for Specific Gravity @ \$25 per sample	\$ 50.00
2 water samples analyzed for Iron using Method 6010 @ \$35 per sample	70.00
2 water samples analyzed for % Acid by Volume @ \$25 per sample	<u>50.00</u>
Amount Due	\$ 170.00